

**(D) Amendments to the Drawings**

The attached sheets of drawings include changes to Figures 9, 18-20. These sheets replace the original sheets including Figures 1-20. The changes aim at correcting the margin and improving the quality of lines and numbering.



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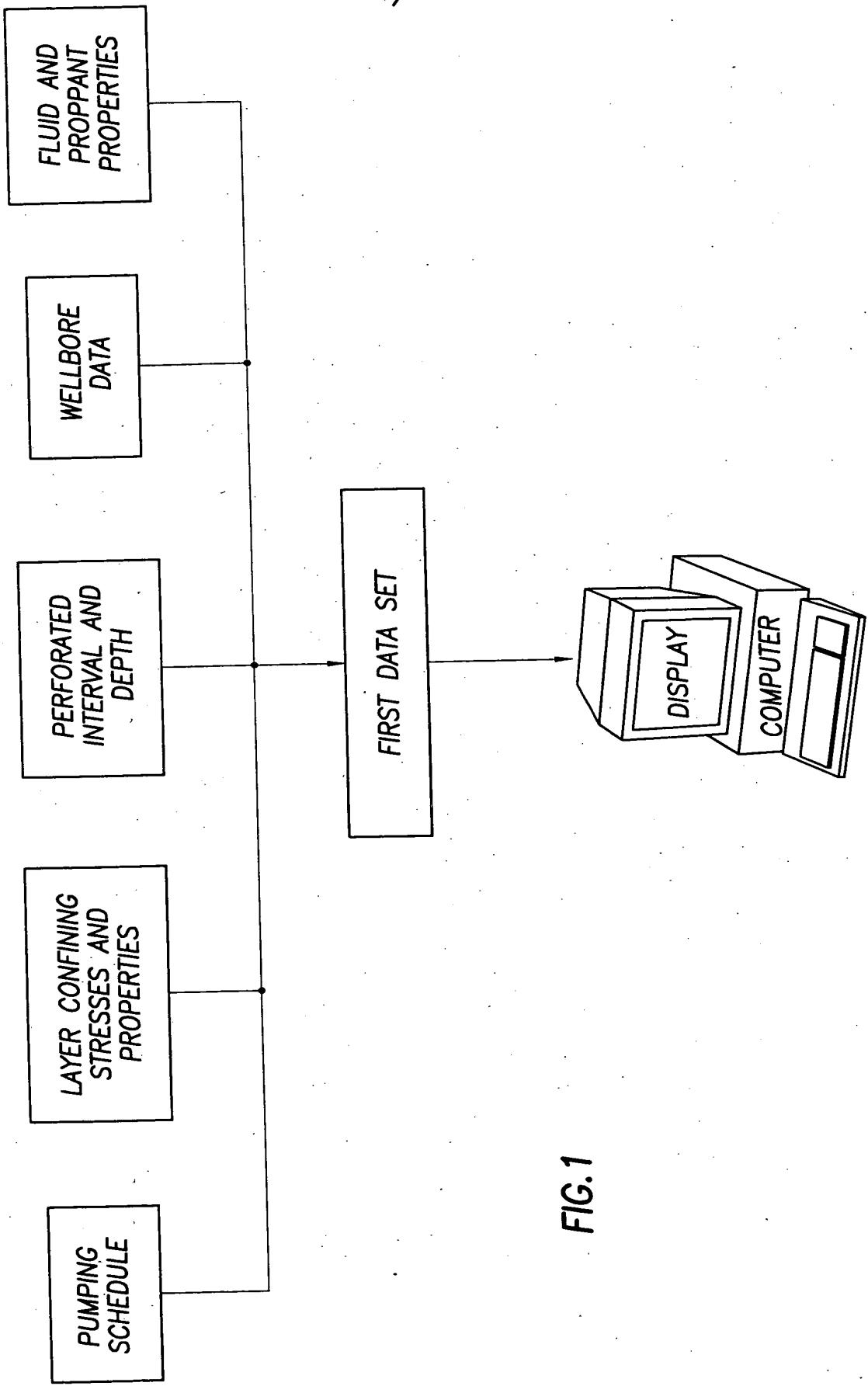


FIG. 1



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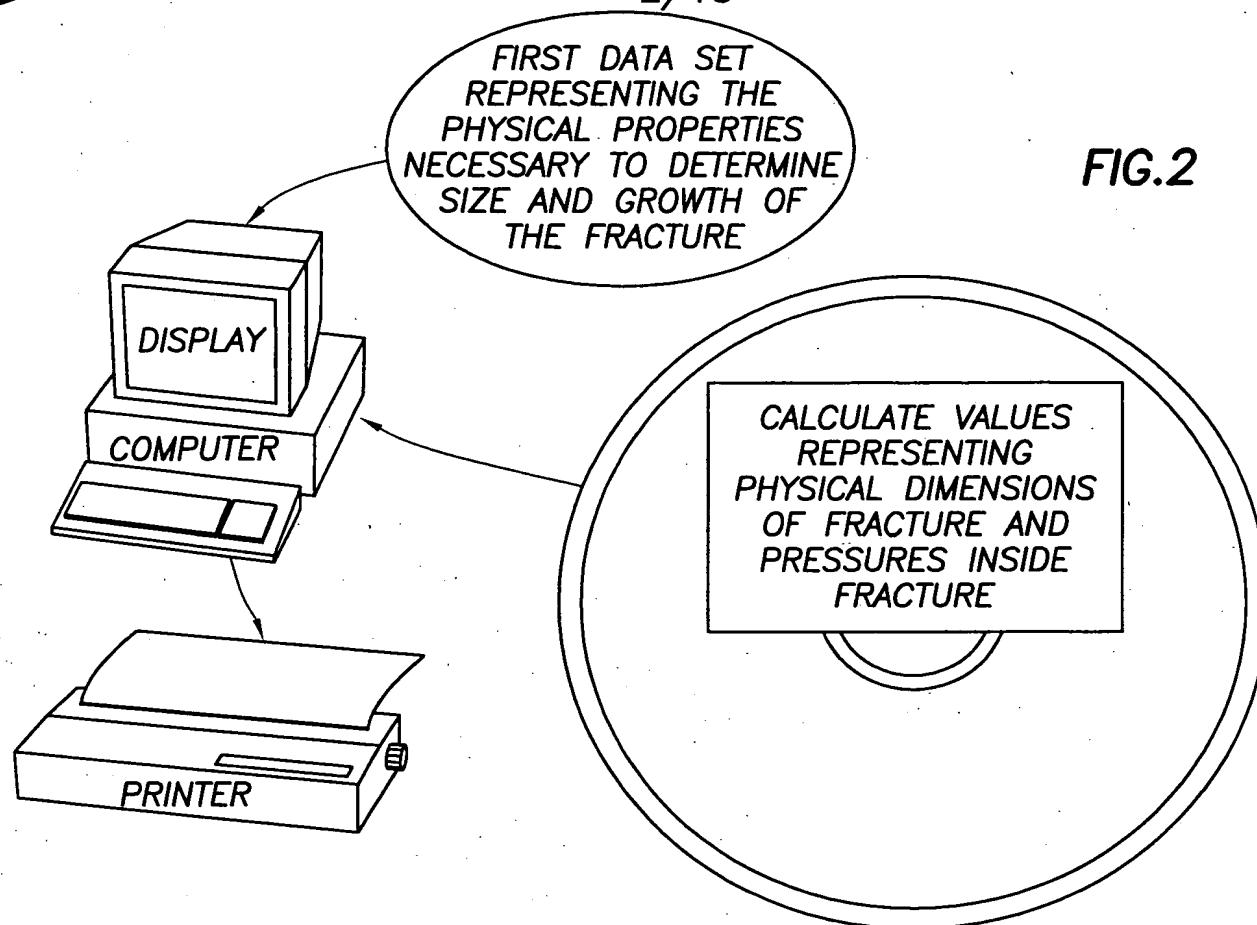


FIG.3

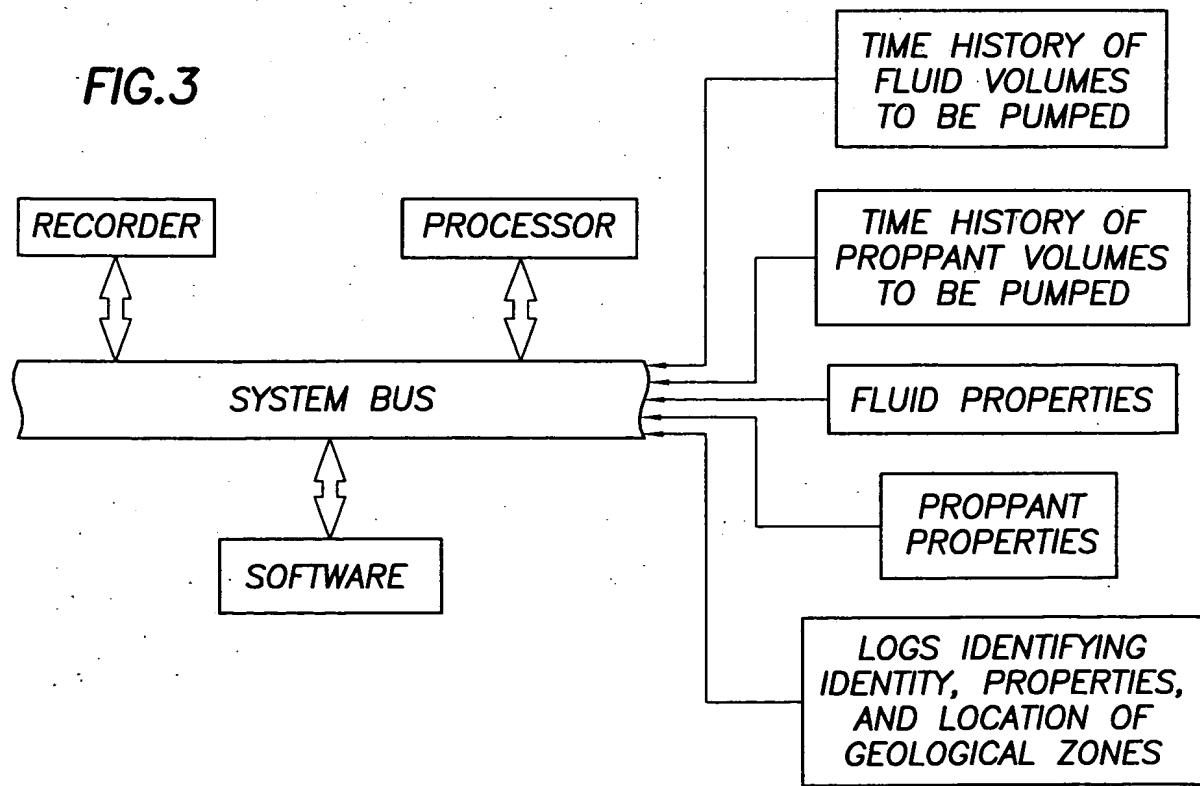
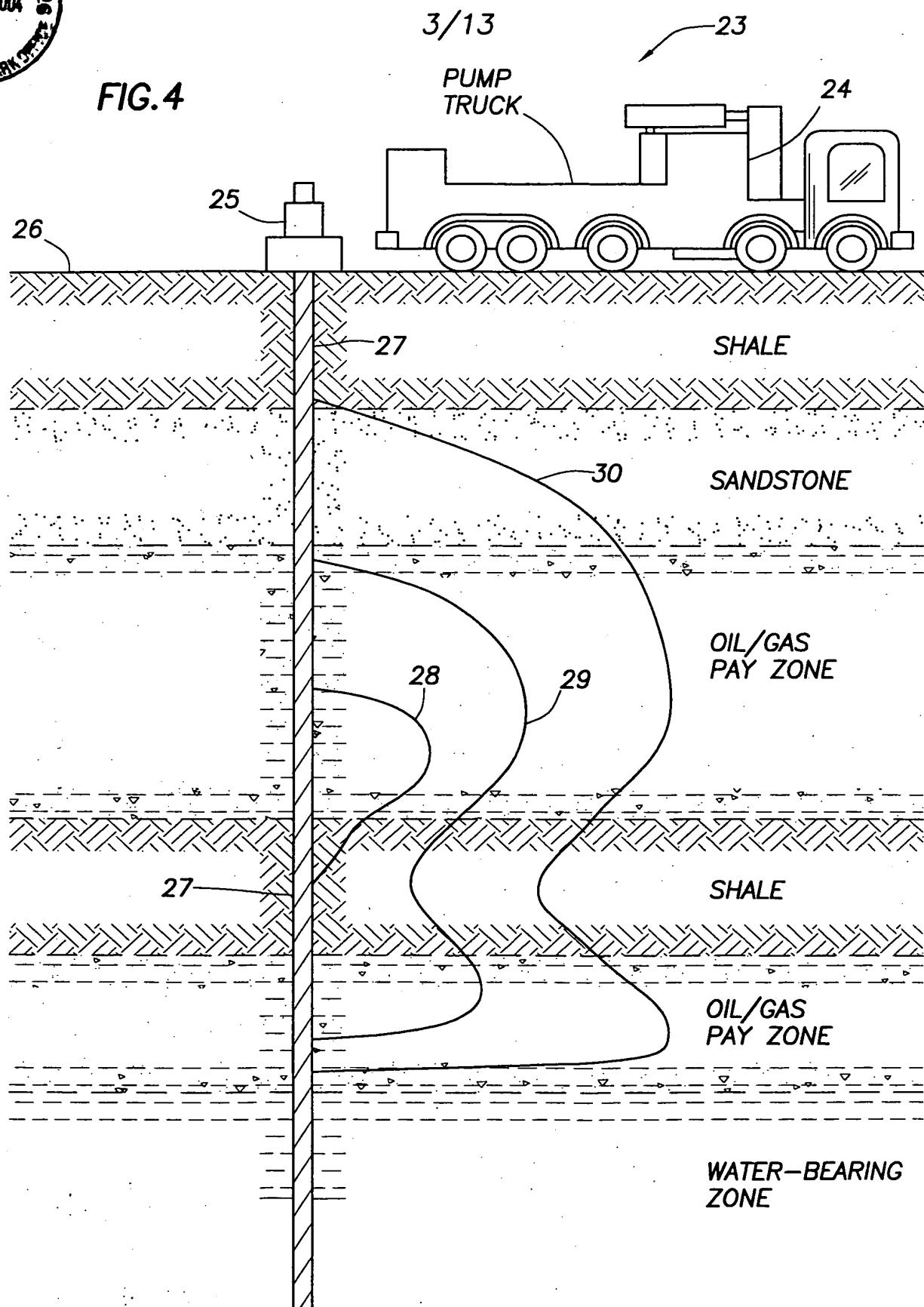




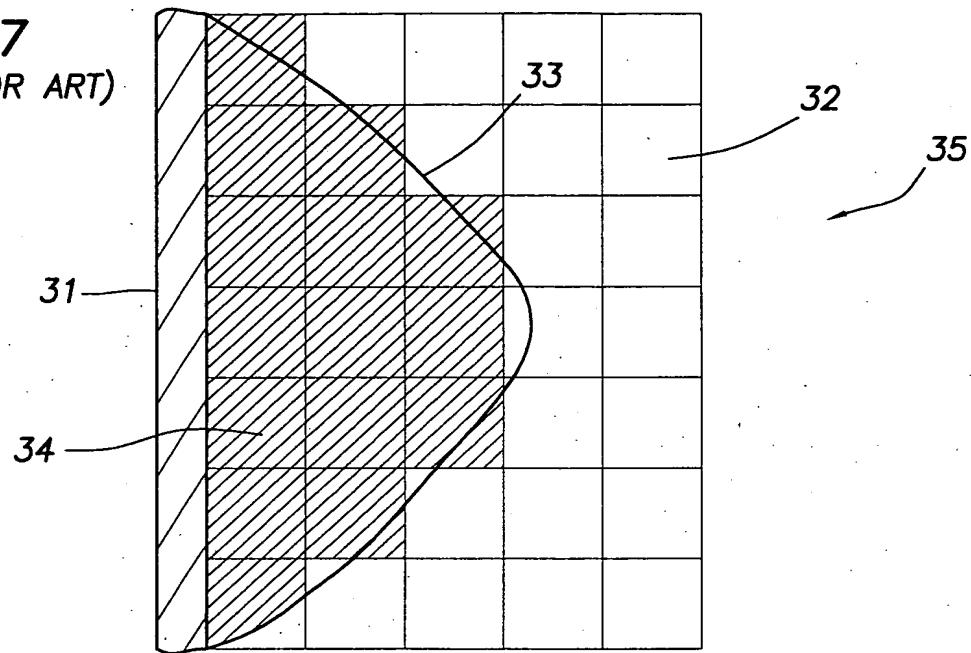
FIG. 4





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**FIG.7**  
(PRIOR ART)



**FIG.5**

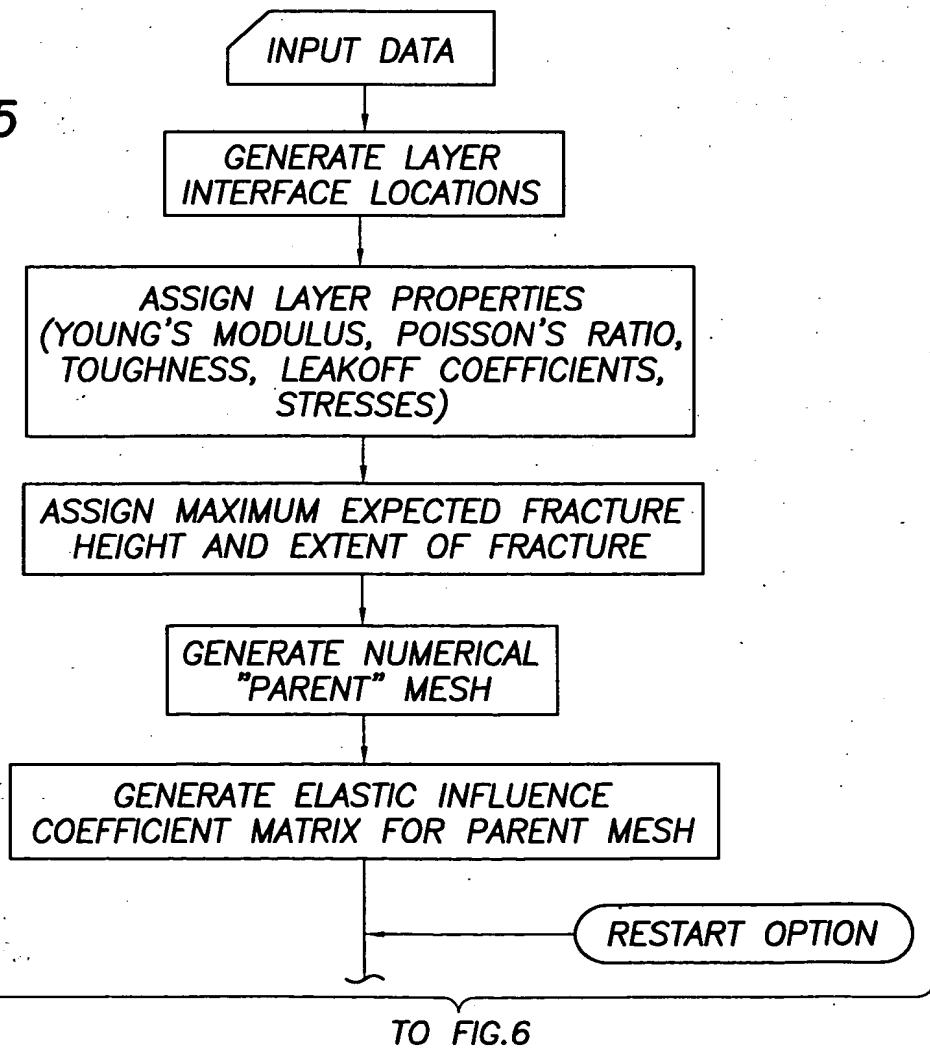
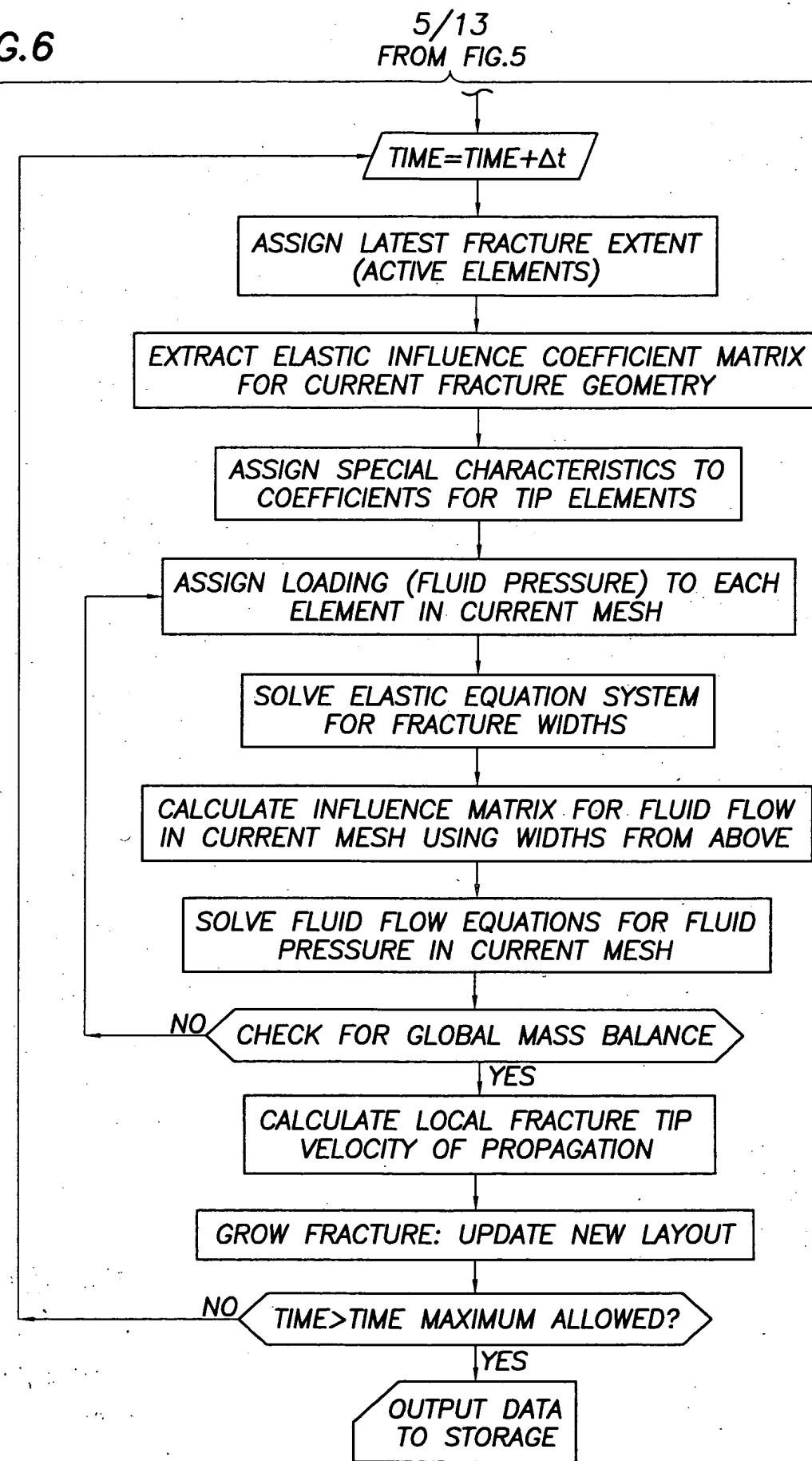




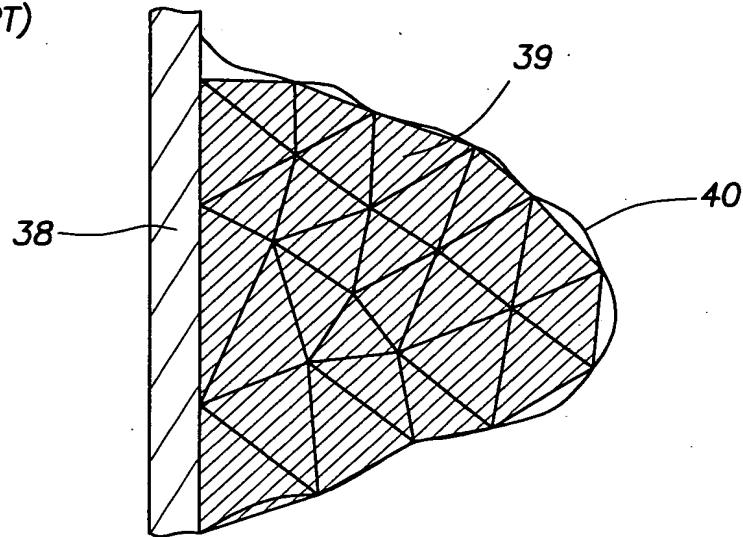
FIG.6





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**FIG.8**  
(PRIOR ART)



**FIG.12**

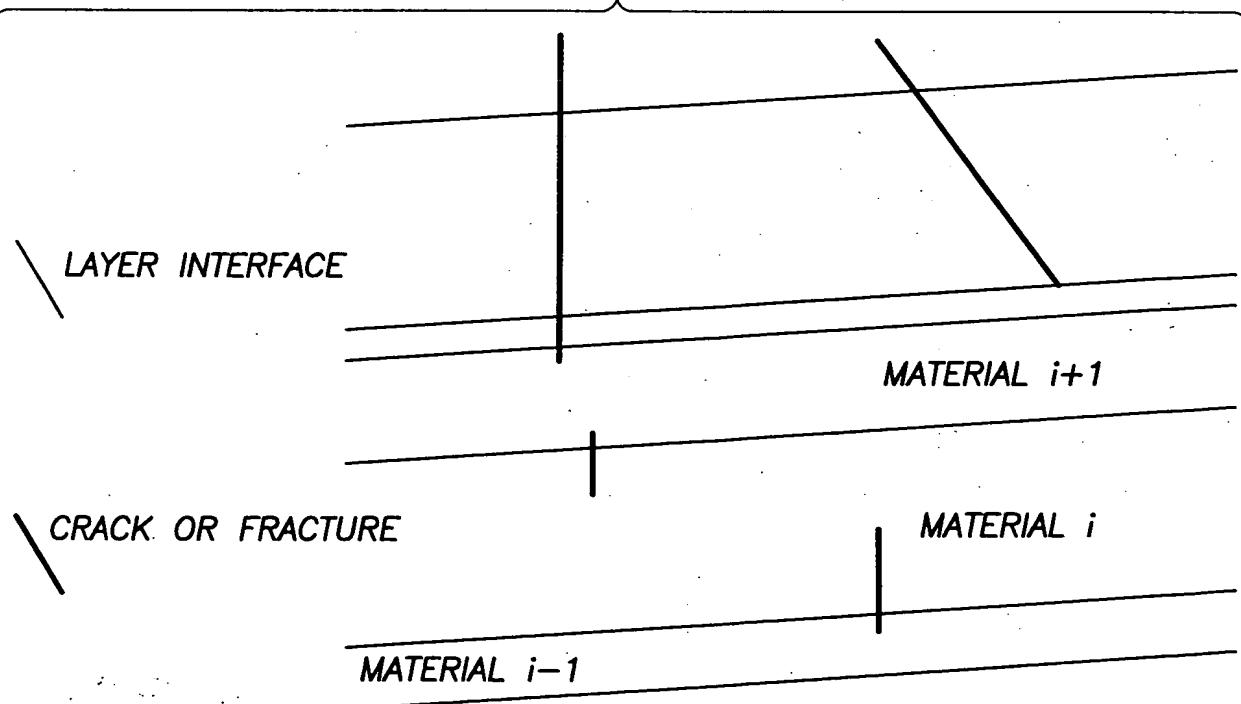
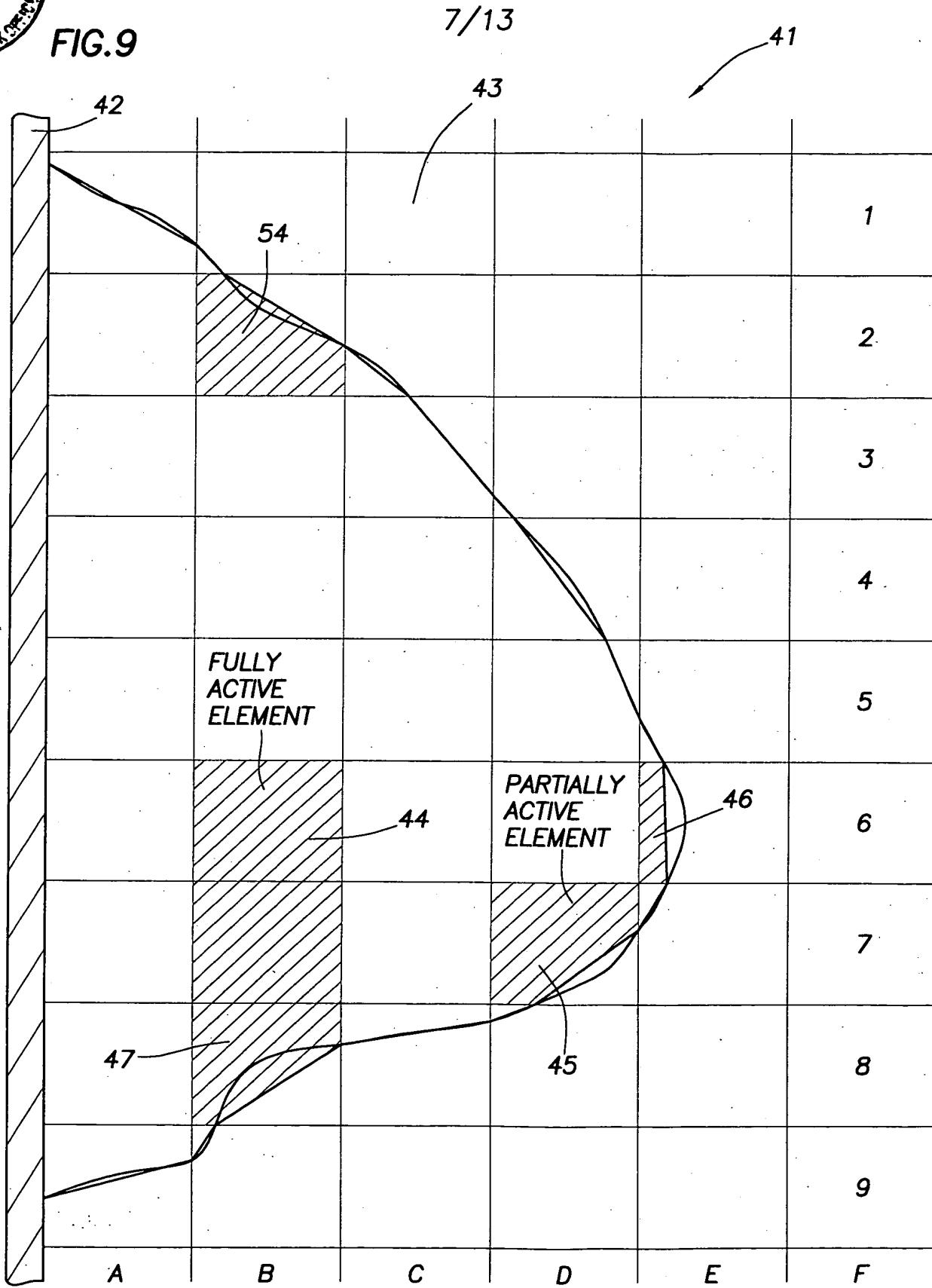




FIG.9





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FIG.10

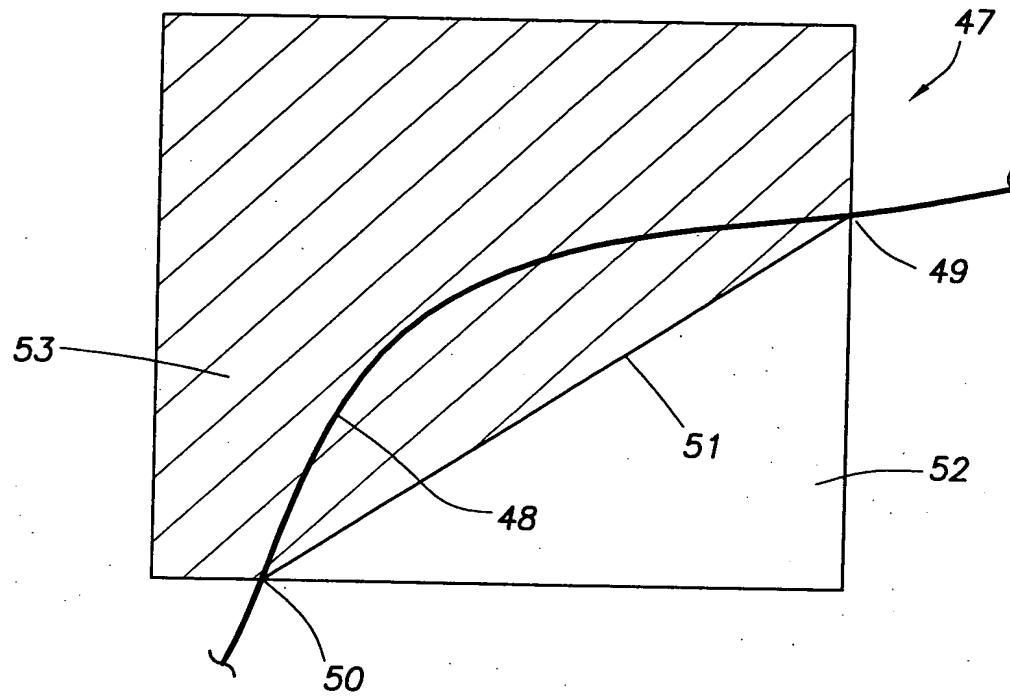


FIG.11

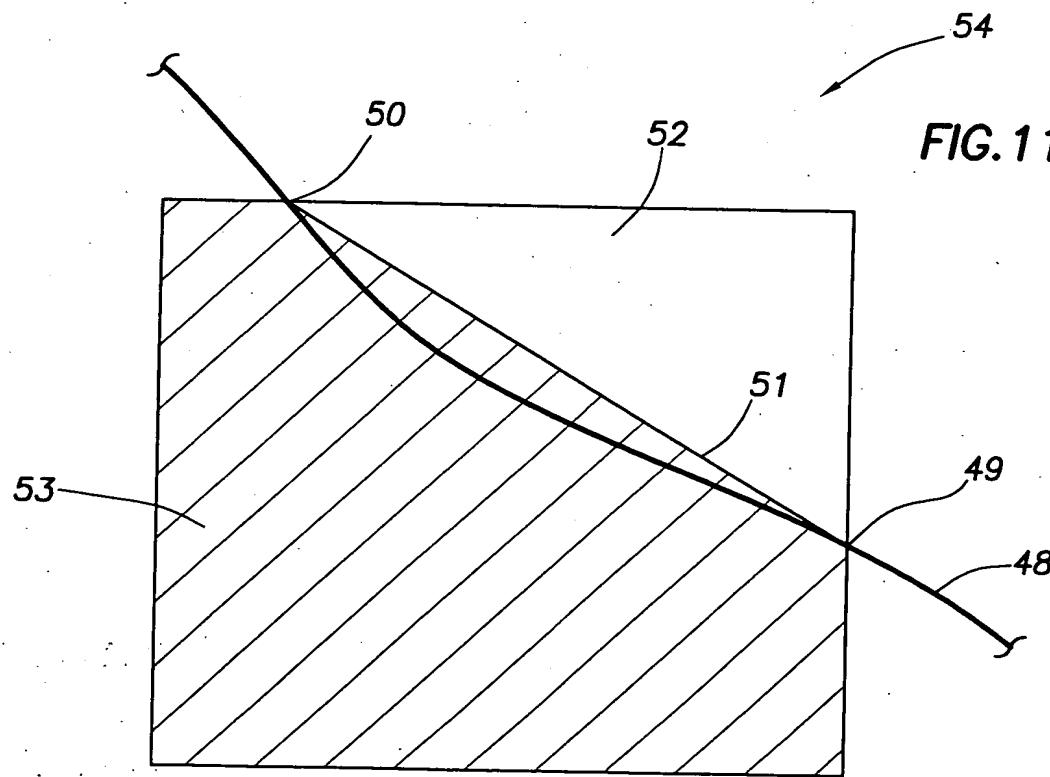




FIG. 13

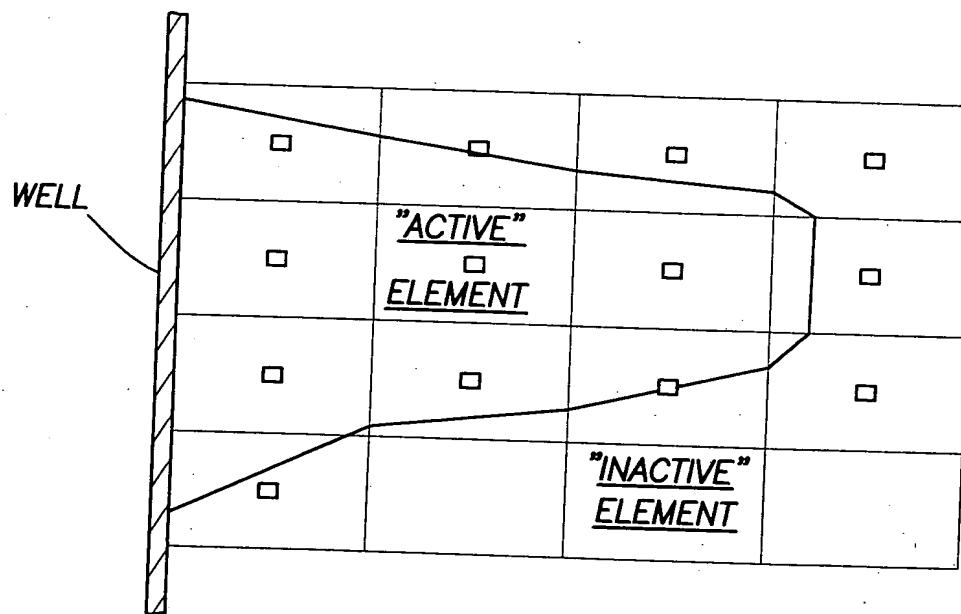
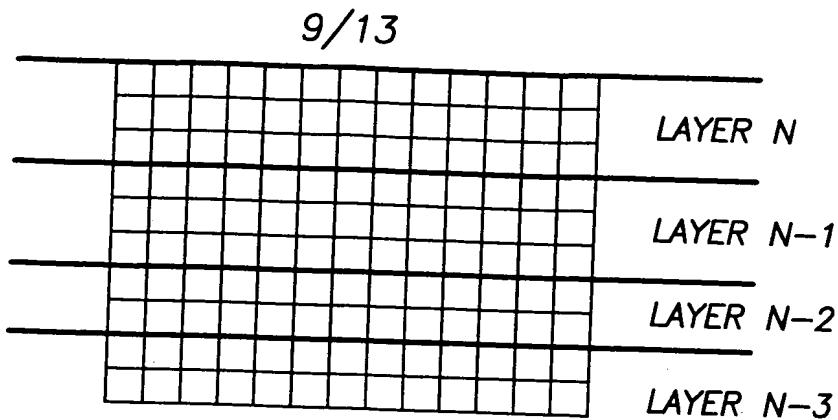
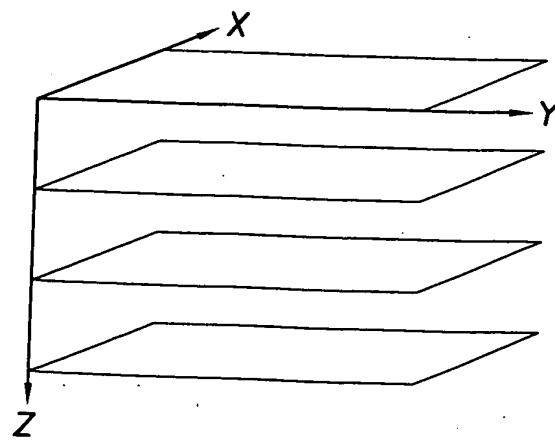


FIG. 14

FIG. 15





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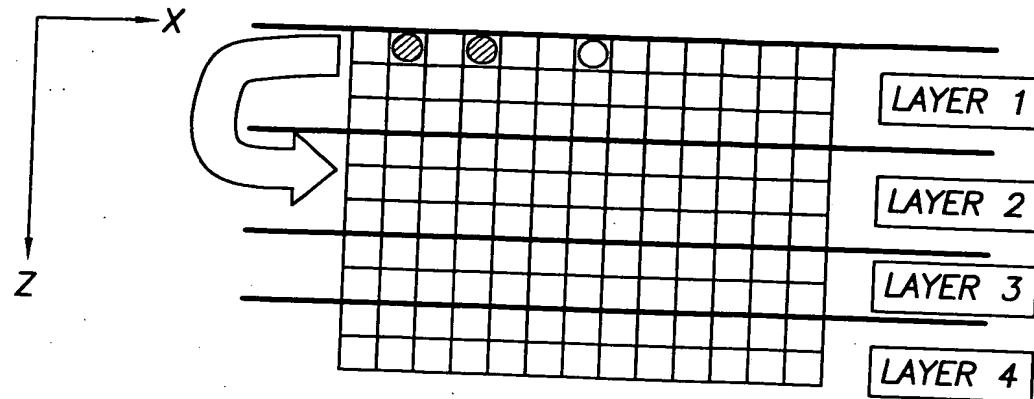


FIG.16

FIG.17

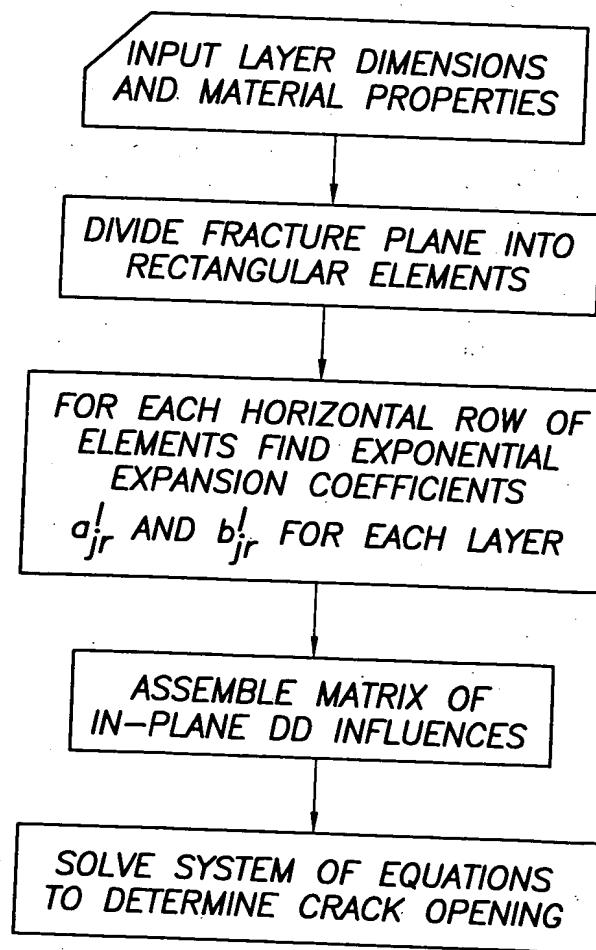


FIG. 18



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Dowell FracCADE - [Zone]

File Edit View FracCADE General Input Tools Window Help

Untitled

Zone 1 ▶ Zone Name CLEAN-SANDSTONE Rock Type CLEAN-SANDSTONE ▶

Single Zone Summary

Description

Dimensions

Top TVD	4900.0 ft
Top MD	4900.0 ft
Gross Height	100.0 ft
Leakoff Height	100.0 ft
Net Height	100.0 ft
Spacing	60 acres

Physical Properties

Porosity	10.0%
Permeability	1 md
Fracture Gradient	0.626 psi/ft
Minimum In-situ Stress	3099 psi
Reservoir Pressure	2317 psi
Young's Modulus	5.619E+06 psi
Poisson's Ratio	0.20
Fracture Toughness	1200 psi.in0.5
Specific Gravity	2.50

Saturations

Gas	65.0%
Oil	10.0%
Water	25.0%

Zone Perforations

Number	0
Diameter	0.320 in

Edit Parameters

Fixed Variable

TVD ▶

Shift Direction ▶

DOWN

New

Insert

Delete

In situ Correlation...

Detailed Input...

Spreadsheet...



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FIG. 19

Dowell FracCADE - [Fracturing Fluids]

File  Edit  View  FracCADE  General  Input  Tools  Window  Help

Admin  Well  Res Fld  Zon

Description \_\_\_\_\_

Index **2**  ▼  Name **YF130D**

Database  Properties

Rheology (Power Law)

$r'$	0.75
$K$	$1.20E-2 \text{ lbf.s}^0.75 \text{ ft}^2$
Visc.	65.173 cp
	$0.170 \text{ 1/sec}$

Fluid  Rheology Table

Shear Rate **170.1 1/sec**

Temperature Selection **140 degF**  ▶

Temperature **140 degF**

Add...  Delete...  Modify...

Copy From...  Import From...  Plot...  Close  Help

Display Constant Rheology Interpolation Parameters

Constant Rheology Interpolation Parameters

Temperature **160 degF**  Exposure Time **0.0 hr**

Base Fluid Sp Gr **1.00**  Fluid Surface Temp **80 degF**



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FIG. 20

